

DEPARTMENT OF COMMERCE**National Oceanic and Atmospheric Administration**

RIN 0648-XD79

Incidental Takes of Marine Mammals During Specified Activities; Black Abalone Research Surveys at San Nicolas Island, Ventura County, CA

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Notice; issuance of an incidental take authorization.

SUMMARY: In accordance with the Marine Mammal Protection Act (MMPA) regulations, NMFS has issued an Incidental Harassment Authorization (IHA) to Dr. Glenn VanBlaricom (Dr. VanBlaricom) for the take of marine mammals, by Level B harassment only, incidental to the assessment of black abalone populations at San Nicolas Island (SNI), CA.

DATES: The IHA is effective from January 18, 2008, through January 17, 2009.

ADDRESSES: A copy of the IHA and the application are available by writing to Michael Payne, Chief, Permits, Conservation and Education Division, Office of Protected Resources, National Marine Fisheries Service, 1315 East-West Highway, Silver Spring, MD 20910-3225, or by telephoning the contact listed here. A copy of the application containing a list of the references used in this document may be obtained by writing to the address specified above, telephoning the contact listed below (see **FOR FURTHER INFORMATION CONTACT**), or online at: <http://www.nmfs.noaa.gov/pr/permits/incidental.htm>. Documents cited in this notice may be viewed, by appointment, during regular business hours, at the aforementioned address.

FOR FURTHER INFORMATION CONTACT: Howard Goldstein or Jolie Harrison, Office of Protected Resources, NMFS, (301) 713-2289, ext. 172.

SUPPLEMENTARY INFORMATION:**Background**

Sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce to allow, upon request, the incidental, but not intentional, taking of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographical region if certain findings are made and either regulations are

issued or, if the taking is limited to harassment, a notice of a proposed authorization is provided to the public for review.

Authorization shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s) and will not have an unmitigable adverse impact on the availability of the species or stock(s) for certain subsistence uses, and if the permissible methods of taking and requirements pertaining to the mitigation, monitoring and reporting of such takings are set forth. NMFS has defined "negligible impact" in 50 CFR 216.103 as "...an impact resulting from the specified activity that cannot be reasonably expected to, and is not reasonably likely to, adversely affect the species or stock through effects on annual rates of recruitment or survival."

Section 101(a)(5)(D) of the MMPA established an expedited process by which citizens of the United States can apply for an authorization to incidentally take small numbers of marine mammals by harassment. Except with respect to certain activities not pertinent here, the MMPA defines "harassment" as:

any act of pursuit, torment, or annoyance which (i) has the potential to injure a marine mammal or marine mammal stock in the wild [Level A harassment]; or (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering [Level B harassment].

Section 101(a)(5)(D) establishes a 45-day time limit for NMFS review of an application followed by a 30-day public notice and comment period on any proposed authorizations for the incidental harassment of marine mammals. Within 45 days of the close of the comment period, NMFS must either issue or deny issuance of the authorization.

Summary of Request

On November 5, 2007, NMFS received a letter from Dr. VanBlaricom, of the Washington Cooperative Fish and Wildlife Research Unit, requesting renewal of an IHA that was first issued to him on September 23, 2003 (68 FR 57427, October 3, 2003), and was last reissued on December 1, 2006 (71 FR 71136, December 8, 2006). The proposed 2008 IHA was published, and comments solicited, on December 11, 2007 (72 FR 70311). The final IHA would authorize the take, by harassment, of small numbers of California sea lions (*Zalophus californianus*), Pacific harbor seals (*Phoca vitulina richardsi*), and northern

elephant seals (*Mirounga angustirostris*) incidental to research surveys performed for the purpose of assessing trends in black abalone (*Haliotis cracherodii*) populations at SNI, Ventura County, California. The proposed research consists of 2 researchers, on foot, counting abalone at nine permanent sites (1 m² each) on SNI twice a year, with one brief additional visit to each site for maintenance.

Population trend data for black abalone populations have become important in a conservation context because of: (a) the reintroduction of sea otters to SNI in 1987, raising the possibility of conflict between otter conservation and abalone populations (abalones are often significant prey for sea otters); (b) the appearance of a novel exotic disease, abalone withering syndrome, at SNI in 1992, resulting in dramatically increased rates of abalone mortality at the Island; and, (c) the recent designation of California populations of black abalones as a species of concern in the context of the Endangered Species Act (ESA). Research is done under the auspices of the Washington Cooperative Fish and Wildlife Research Unit, the University of Washington, and the U.S. Navy (owner of SNI), with additional logistical support from the University of California, Santa Cruz.

Additional information on the research is contained in the application, which is available upon request (see **ADDRESSES**).

Project Description

Nine permanent abalone research study areas are located in rocky intertidal habitats on SNI in Ventura County, CA. The applicant has made 111 separate field trips to SNI from September 1979 through October 2007, participating in abalone survey work on 591 different days at nine permanent study sites. Under the latest authorization, Dr. VanBlaricom made five different trips to the island (but no more than 2 research and 1 maintenance visits to most sites with pinnipeds; sites without pinnipeds may be visited more often) and conducted work for 27 total days in the one year period.

Quantitative abalone surveys on SNI began in 1981, at which point permanent research sites were chosen based on the presence of dense patches of abalone in order to monitor changes over time in dense abalone aggregations. Research is conducted by counting black abalone in plots of 1 m² (3.3 ft²) along permanent transect lines in rocky intertidal habitats at each of the nine study sites on the island. Permanent transect lines are demarcated by

stainless steel eye-bolts embedded in the rock substrata and secured with marine epoxy compound. Lines are placed temporarily between bolts during surveys and are removed once surveys are completed. Survey work is done by two field biologists working on foot (sites are accessed by hiking to water from vehicle parked inland) and monitoring of black abalone populations at SNI can be done only during periods of extreme low tides. The exact date of a visit to any given site is difficult to predict because variation in surf height and sea conditions can influence the safety of field biologists as well as the quality of data collected. In most years survey work is done during the months of January, February, March, July, November, and December because of optimal availability of low tides. All work is done during daylight hours due to safety considerations.

During the year, each of the nine permanent study sites at SNI will be visited three times. Abalone surveys, which take no more than 4 hours at each site, are conducted during two of the three visits to each of the nine sites. The third, and final, visit is a maintenance visit, which takes less than 30 minutes at each site and is used to take measurements and make necessary repairs to plots and is conducted in a month when smaller numbers of pinnipeds are present.

The affected marine mammal populations at SNI, especially California sea lions and northern elephant seals, have grown substantially since the beginning of abalone research in 1979 and have occupied an expanded distribution on the island due to population growth. Sites previously accessible with no risk of marine mammal harassment are now being utilized by marine mammals at levels such that approach without the possibility of harassment is difficult. An IHA is warranted for this study because of the nine study sites used for the abalone surveys, only two sites can be occupied without the possibility of disturbing at least one species of pinniped.

Description of Habitat and Marine Mammals in the Activity Area

San Nicolas is one of the eight Channel Islands, located in the Santa Barbara Channel off Southern California. Nine miles long (14.5 km) and about three and a half miles (5.6 km) across at its widest point, it is the farthest island from the mainland, more than 60 miles (96.6 km) offshore and about 85 miles (136.8 km) southwest of Los Angeles, California. SNI is owned and operated by the U.S. Navy and is

off-limits to civilians without specific permission.

Many of the beaches in the Channel Islands provide resting, molting or breeding places for species of pinnipeds. On SNI, three pinniped species (northern elephant seal, Pacific harbor seal, and California sea lion) can be expected to occur on land in the vicinity of abalone research sites either regularly or in large numbers during certain times of the year. In addition, a single adult male Guadalupe fur seal (*Arctocephalus townsendi*) (federally listed as threatened under the Endangered Species Act) was seen at one abalone research site on two occasions during the summer months in the mid-1980's. However, none have been seen since those original sightings.

Further information on the biology and distribution of these species and others in the region can be found in Dr. VanBlaricom's application, which is available upon request (see **ADDRESSES**), and the Marine Mammal Stock Assessment Reports, which are available online at: http://www.nmfs.noaa.gov/prot_res/PR2/Stock_Assessment_Program/individual_sars.html.

California Sea Lions

The U.S. stock of California sea lions extends from the U.S./Mexico border north into Canada. Breeding areas of the sea lion are on islands located in southern California, western Baja California, and the Gulf of California and they primarily use the central California area to feed during the non-breeding season. Population estimates for the U.S. stock of California sea lions, which are based on counts conducted in 2001 and extrapolations from the number of pups, range from a minimum of 138,881 to an average of 244,000 animals, with a current growth rate of 5.4 to 6.1 percent per year (Carretta *et al.*, 2005). The California sea lion is not listed under the ESA and the U.S. stock is not considered depleted under the MMPA.

California sea lions haul out at many sites on SNI and are by far the most common pinniped on the island. Over the course of a year, up to 100,000 sea lions may use SNI. Numbers of sea lions at SNI increased by about 21 percent per year between 1983 and 1995 (NMFS 2003) and sea lions have recently started occupying areas that were not formerly used. Pupping occurs on the beaches of SNI from mid-June to mid-July. Females nurse their pups for about eight days and then begin an alternating pattern of foraging at sea vs. attending and nursing the pup on land, which lasts for about eight months, and sometimes up to a year. California sea lions also haul out

at SNI during the molting period in September, and smaller numbers of females and juveniles haul out during most of the year.

Pacific Harbor Seals

Harbor seals are widely distributed in the North Atlantic and North Pacific. In California, approximately 400–600 harbor seal haul-out sites are distributed along the mainland and on offshore islands, including intertidal sandbars, rocky shores and beaches (Hanan, 1996; Lowery *et al.*, 2005). A complete count of all harbor seals in California is impossible because some are always away from the haul-out sites. A complete pup count (as is done for other pinnipeds in California) is also not possible because harbor seals are precocious, with pups entering the water almost immediately after birth. Based on the most recent harbor seal counts (2004 and 2005) and including a correction factor for the above, the estimated population of harbor seals in California is 34,233 (Carretta *et al.*, 2005), with an estimated minimum population of 31,600 for the California stock of harbor seals. Counts of harbor seals in California showed a rapid increase from 1972 to 1990, but since 1990 there has been no net population growth along the mainland or the Channel Islands. The decrease in the growth rate may indicate that the population has reached its carrying capacity. The harbor seal is not listed under the ESA and the California stock is not considered depleted under the MMPA.

Harbor seals haul out at various sandy, cobble, and gravel beaches around SNI and pupping occurs on the beaches from late February to early April, with nursing of pups extending into May. Harbor seals may also haul out during molting period in late Spring, and smaller numbers haul out at other times of year. Harbor seal abundance increased at SNI from the 1960s until 1981, but since then the average counts have not changed significantly. From 1982 to 1994, numbers of harbor seals have fluctuated between 139 and 700 harbor seals based on both peak ground counts and annual photographic survey photos. The most recent aerial count on SNI was of 457 harbor seals in 1994.

Northern Elephant Seals

Northern elephant seals breed and give birth in California (U.S.) and Baja California primarily on offshore islands, from December to March (Stewart *et al.*, 1994). The California breeding stock, which includes the animals on SNI, is now demographically separated from

the Baja California population. Based on trends in pup counts, northern elephant seal colonies appeared to be increasing in California through 2001. The population size of northern elephant seals in California is estimated to be 101,000 animals, with a minimum population estimate of 60,547 (Carretta *et al.*, 2005). A continuous average growth rate (though it has declined a bit in recent years) of 8.3 percent has seen numbers of this species increase from 100 in 1900 to the current population size (Carretta *et al.*, 2005). The northern elephant seal is not listed under the ESA and the California stock is not considered depleted under the MMPA.

Increasing numbers of elephant seals haul out at various sites around SNI. Based on a pup count in 1995 that found 6,575 pups, scientists estimated that over 23,000 elephant seals may use SNI in a year (NMFS 2003). From 1988 to 1995 the pup counts on SNI increased at an average rate of 15.4 percent per year; however, the growth rate of the population as a whole seems to have declined in recent years (NMFS 2003). Pupping occurs on the beaches of SNI from January to early February, with nursing of pups extending into March. Northern elephant seals also haul out during the molting periods in the spring and summer, and smaller numbers haul out at other times of the year.

Comments and Responses

On December 11, 2007, NMFS published in the **Federal Register** a notice of a proposed IHA for Dr. VanBlaricom's request to take marine mammals incidental to conducting black abalone research on SNI, and requested comments regarding this proposed IHA (72 FR 70311). During the 30-day public comment period, NMFS received one comment from the Marine Mammal Commission (MMC) recommending NMFS issue the IHA as proposed.

Comment: The MMC states that because the applicant is requesting authority to take marine mammals by Level B harassment only, NMFS should require that research activities be suspended immediately if an injury or mortality of a marine mammal is found in the vicinity of the operations and the mortality or injury could have occurred incidental to the research activities. MMC further recommends that any such suspension should remain in place until NMFS has: (1) reviewed the situation and determined that further injuries or mortalities are unlikely to occur; or (2) determined whether steps (e.g. monitoring and mitigation measures) can be taken to avoid further injuries or

mortalities; or (3) issued regulations to govern such takes under section 101(a)(5)(A) of the MMPA.

Response: NMFS concurs with MMC's recommendation and has included a requirement to this effect in the IHA. NMFS authorizes the applicant to take marine mammals by Level B harassment only.

Potential Effects of Activities on Marine Mammal

Variable numbers of sea lions, harbor seals, and elephant seals typically haul out near seven of the nine study sites used for abalone research, with breeding activity occurring at four of these seven sites. Pinnipeds likely to be affected by abalone research activity are those that are hauled out on land at or near study sites.

Incidental harassment may result if hauled animals move away from the abalone researchers. For the purpose of estimating numbers of pinnipeds taken by these activities, NMFS assumes that pinnipeds that move or change the direction of their movement in response to the presence of researchers are taken by Level B Harassment. Animals that merely raise their head and look at the researcher are not considered to have been taken. Although marine mammals will not be deliberately approached by abalone survey personnel, approach may be unavoidable if pinnipeds are hauled out directly upon the permanent abalone study plots. In almost all cases, shoreline habitats near the abalone study sites are gently sloping sandy beaches or horizontal sandstone platforms with unimpeded and non-hazardous access to the water. If disturbed, hauled animals may move toward the water without risk of encountering significant hazards. In these circumstances, the risk of injury or death to hauled animals is very low.

The risk of marine mammal injury or mortality associated with abalone research increases somewhat if disturbances occur during breeding season, as it is possible that mothers and dependent pups could become separated. If separated pairs don't reunite fairly quickly, risks of mortality to pups (through starvation) may increase. Also, adult northern elephant seals may trample elephant seal pups if disturbed, which could potentially result in the injury or death of pups. However, NMFS has included time of year restrictions to limit the presence of researchers to months that California sea lion and harbor seal dependent pups are not present at the survey sites. Additionally, though elephant seal pups are occasionally present at abalone

surveys, risk of pup mortalities are very low because elephant seals are far less reactive to researcher presence than the other two species (an estimated 32 total elephant seals have been disturbed in the last four years out of 2074 present around the study site). Last, researchers will use great care approaching sites; and pups are on the sand while the permanent study sites are on rocks, which leaves the two always separated by at least 50 m (164 ft). Because of the circumstances and the IHA requirements discussed above, NMFS believes it highly unlikely that the proposed activities would result in the injury or mortality of pinnipeds (and none have been recorded in the 28 years that the researcher has been conducting this research).

The results of Dr. VanBlaricom's monitoring under the previous IHA are summarized in Table 1, which shows the numbers of each species present at Dr. VanBlaricom's survey sites as well as the numbers disturbed during his visits in the last year. As part of the required monitoring, Dr. VanBlaricom records the numbers of disturbed animals that flush into the water, the number that move more than 1 m, but do not enter the water, and the number that become alert and move, but do not move more than 1 m (see the application for these numbers). Animals that raised their head and looked at the researcher without moving were not considered disturbed (or harassed pursuant to the MMPA). For the purposes of estimating take in the IHA, NMFS conservatively estimates take as the total of all three categories of disturbed behavior recorded.

As indicated in Table 1, approximately 50 percent of the total animals considered harassed by this activity in 2007 responded by flushing into the water (671 sea lions, 68 harbor seals, and 0 elephant seals) and the rest responded to a lesser degree by moving some distance on land when the researchers approached. Though the researchers have not stayed to find how soon pinnipeds return after flushing (leaving as soon as possible minimizes the effects), increasing numbers at some of the sites and pinniped presence at sites where they were not present before suggest that the research is not having any long-term detrimental effects on the population of any of these three species. Older, weaned sea lion pups and juveniles were seen and disturbed at site 8, and a small number (5) were flushed into the water, but none were known to be injured in any way.

Year	Month	Date	Site #	California Sea Lions		Pacific Harbor Seals		Northern Elephant Seals	
				Present at site	Disturbed	Present at site	Disturbed	Present at site	Disturbed
2007	January	19	1	61	50	0	0	6	1
2007	January	20	1	58	51	0	0	6	0
2007	October	27	1	88	76	0	0	0	0
2007	January	6	2	0	0	0	0	0	0
2007	January	7	2	0	0	0	0	0	0
2007	February	3	2	0	0	0	0	0	0
2007	February	17	2	0	0	0	0	0	0
2007	October	26	2	0	0	0	0	0	0
2007	January	18	18	0	0	0	0	0	0
2007	January	29	3	0	0	0	0	0	0
2007	February	1	3	0	0	0	0	0	0
2007	February	2	3	0	0	0	0	0	0
2007	February	16	3	0	0	0	0	0	0
2007	October	26	3	0	0	0	0	0	0
2007	October	28	3	0	0	0	0	0	0
2007	January	21	4	0	0	0	0	0	0
2007	February	1	4	2	2	0	0	0	0
2007	February	4	4	0	0	0	0	0	0
2007	October	25	4	0	0	0	0	0	0
2007	January	30	5	79	43	33	15	42	0
2007	January	4	6	306	161	53	31	57	0
2007	January	30	6	271	130	39	22	291	0
2007	February	14	7	130	94	8	0	41	0
2007	February	15	7	237	226	0	0	8	0
2007	January	17	8	168	131	0	0	8	0
2007	January	31	8	330	225	0	0	9	0
2007	October	24	8	103	92	0	0	0	0
2007	February	18	8	65	35	0	0	0	0
2007	January	3	9	0	0	0	0	3	1
2007	January	5	9	1	1	0	0	3	0
2007	February	16	9	0	0	0	0	6	0
Totals				1899	1317	133	68	480	2
# that flushed into water					671 (51%)		68 (100%)		0
# moved >1m, but not into water					458 (35%)		0		2 (100%)
# came alert, but did not move >1 m					188 (14%)		0		0

Table 1. Results from 2006-2007 monitoring. Number of "disturbed" animals indicates total of the three categories of recorded reactions, which include: animals that flushed into the water; animals that moved more than 1 m, but did not enter the water; and, animals that moved or changed direction, but did not move more than 1 m.

Mitigation

Several mitigation measures to reduce the potential for harassment from population assessment research surveys will be implemented as part of the SNI abalone research activities. Primarily, mitigation of the risk of disturbance to pinnipeds requires that researchers are judicious in the route of approach to abalone study sites, avoiding close contact with pinnipeds hauled out on shore. In no case will marine mammals be deliberately approached by abalone survey personnel, and in all cases every possible measure will be taken to select a pathway of approach to study sites that minimizes the number of marine mammals harassed. Each visit to a given study site will last for a maximum of 4 hours, after which the site is vacated and can be re-occupied by any hauled marine mammals that may have been disturbed by the presence of abalone researchers.

The potential risk of injury or mortality will be avoided with the following measures. Disturbances to females with dependent pups (in the cases of California sea lions and Pacific harbor seals) will be mitigated to the greatest extent practicable by avoiding visits to the four black abalone study sites with resident pinnipeds during periods of breeding and lactation from mid-February through mid-October. During this period, abalone research will be confined to the other five sites where pinniped breeding and post-partum nursing does not occur. Limiting visits to the four breeding and lactation sites (5, 6, 7, and 8) to periods when these activities do not occur (second half of October, November, December, January, and the first half of February) will reduce the possibility of incidental harassment and the potential for injury or mortality of dependent California sea lion pups and Pacific harbor seal pups to near zero.

Northern elephant seal pups are present at four sites during winter months. Risks of injury or mortality of elephant seal pups by mother/pup separation or trampling are limited to the period from January through March when pups are born, nursed, and weaned, ending about 30 days post-weaning when pups depart land for foraging areas at sea. However, elephant seals have a much higher tolerance of nearby human activity than sea lions or harbor seals. Also, elephant seal pupping typically occurs on the sandy beaches at SNI, approximately 50 m (164 ft) or more away from the abalone study sites. Possible take of northern elephant seal pups will be minimized by using a very careful approach to the

study sites and avoiding the proximity of hauled seals and any seal pups during collection of abalone population data.

One individual Guadalupe fur seal was seen at study site 8 on two separate occasions during the summer months in the mid-1980's. Since the original sightings, no individuals of this species have been seen during abalone research. However, to ensure that Guadalupe fur seals are not affected by these activities and that authorization is not needed pursuant to the MMPA or the ESA, researchers will only visit site 8 from mid-October through mid-February with a single proposed visit in July, and work will be immediately suspended and researchers vacated if an individual is seen. Guadalupe fur seals are distinctive in appearance and behavior, and can be readily identified at a distance without any disturbance.

Sea otters, which are federally listed as threatened under the ESA and managed by the U.S. Fish and Wildlife Service (USFWS), are not expected ashore during the time periods when the research activities would be conducted. However, if sea otters are sighted ashore during the abalone research, Dr. VanBlaricom would follow similar procedures in place for fur seals to avoid impacts, suspending research activities in any areas California sea otters are occupying.

Monitoring

Currently, all biological research activities at SNI are subject to approval and regulation by the Environmental Planning and Management Department (EPMD), U.S. Navy. The U.S. Navy owns SNI and closely regulates all civilian access to, and activity on, the island, including biological research. Therefore, monitoring activities will be closely coordinated with Navy marine mammal biologists located on SNI.

In addition, status and trends of pinniped aggregations at SNI are monitored by the NMFS Southwest Fisheries Science Center (SWFSC). Also, long-term studies of pinniped population dynamics, migratory and foraging behavior, and foraging ecology at SNI are conducted by staff at Hubbs-Sea World Research Institute (HSWRI).

Monitoring requirements in relation to Dr. VanBlaricom's abalone research surveys will include observations made by the applicant and his associates. Information recorded will include species counts (with numbers of pups), numbers of observed disturbances, and descriptions of the disturbance behaviors during the abalone surveys. Observations of unusual behaviors, numbers, or distributions of pinnipeds

on SNI will be reported to EPMD, NMFS, and HSWRI so that any potential follow-up observations can be conducted by the appropriate personnel. In addition, observations of tag-bearing pinniped carcasses as well as any rare or unusual species of marine mammals will be reported to EPMD and NMFS.

If at any time injury or death of any marine mammal occurs that may be a result of the proposed abalone research, Dr. VanBlaricom will suspend research activities and contact NMFS immediately to determine how best to proceed to ensure that another injury or death does not occur and to ensure that the applicant remains in compliance with the MMPA.

Reporting

A draft final report must be submitted to NMFS within 60 days after the conclusion of the year-long field season or 90 days prior to the start of the next field season if a new IHA will be pursued. The report will include a summary of the information gathered pursuant to the monitoring requirements set forth in the IHA. A final report must be submitted to the Regional Administrator of the Southwest Region within 30 days after receiving comments from NMFS on the draft final report. If no comments are received from NMFS, the draft final report will be considered to be the final report.

Dr. VanBlaricom has already submitted the final report required by the 2007 IHA and it may be viewed on the NMFS website (see **ADDRESSES**).

Numbers of Marine Mammals Expected to be Harassed

The distribution of pinnipeds hauled out on beaches is not even between sites or at different times of the year. The number of marine mammals disturbed will vary by month and location, and, compared to animals hauled out on the beach farther away from survey activity, only those animals hauled out closest to the actual survey transect plots contained within each research site are likely to be disturbed by the presence of researchers and alter their behavior or attempt to move out of the way.

Table 2 depicts the total numbers of animals encountered and disturbed by Level B Harassment in Dr. VanBlaricom's 2004, 2005, 2006, and 2007 abalone survey field seasons. As discussed earlier, NMFS considers an animal to have been harassed if it moved any distance in response to the researcher's presence or if the animal was already moving and changed direction. Animals that raised their head and looked at the researcher without

moving were not considered harassed. Based on past observations and assuming a maximum level of incidental harassment of marine mammals at each site during periods of visitation, NMFS estimates that the maximum total possible numbers of individuals that

will be incidentally harassed during the effective dates of the proposed IHA would be 1610 California sea lions, 100 Pacific harbor seals, and 20 northern elephant seals may be taken by harassment as a result of this activity. NMFS has determined that the estimated number of takes of California

sea lions, Pacific harbor seals and northern elephant seals are small numbers relative to the approximate total population of each pinniped species (1.2, 0.3, and .03 percent of the minimum population, respectively).

Year	California Sea Lions		Pacific Harbor Seals		Northern Elephant Seals	
	Present around Site	Est. Harassed	Present around Site	Est. Harassed	Present around Site	Est. Harassed
2004	2239	1472	108	99	562	7
2005	1383	983	99	88	409	9
2006	1564	1045	57	50	623	14
2007	1899	1317	133	68	480	2

Table 2. Estimated number of each species harassed over the last four years of abalone research. Minimum population estimates for California sea lions, Pacific harbor seals, and Northern elephant seals are 138881, 31600, and 60547, respectively.

Potential Effects of Activities on Marine Mammal Habitat

NMFS anticipates that the action will result in no impacts to marine mammal habitat beyond rendering the areas immediately around each of the nine study sites less desirable as haul-out sites for a total of 8.5 hours per year. Three visits to each site are anticipated during the year-long validity of the IHA.

ESA

For the reasons already described in this **Federal Register** Notice, NMFS has determined that the described abalone research and the accompanying IHA will have no effect on species or critical habitat protected under the ESA (specifically, the Guadalupe fur seal). Therefore, consultation under Section 7 is not required.

National Environmental Policy Act (NEPA)

NMFS prepared an Environmental Assessment (EA) of the Issuance of an IHA to Take Marine Mammals, by Harassment, During Black Abalone Research at SNI, California, which analyzed the issuance of multiple IHAs over several years for these activities, and subsequently issued a Finding of No Significant Impact (FONSI) on November 21, 2005. The proposed 2008 action is the same as was analyzed in the 2005 EA and the EA remains applicable. A copy of the EA and FONSI are available upon request (see **ADDRESSES**).

Conclusions

Based on Dr. VanBlaricom's application and monitoring reports for previous field seasons, as well as the analysis contained herein, NMFS has determined that the impact of the described abalone research at SNI will result, at most, in a temporary

modification in behavior by small numbers of California sea lions, Pacific harbor seals, and northern elephant seals, in the form of head alerts, movement away from the researchers and/or flushing from the beach. In addition, no take by injury or death is anticipated, and take by harassment will be at the lowest level practicable due to incorporation of the mitigation measures mentioned previously in this document. NMFS has further preliminarily determined that the anticipated takes will have a negligible impact on the affected species.

Authorization

NMFS has issued an IHA to Dr. Glenn R. VanBlaricom for the harassment of California sea lions, Pacific harbor seals, and northern elephant seals incidental to black abalone population trend research, provided the previously mentioned mitigation, monitoring, and reporting requirements are incorporated.

Dated: January 22, 2008.

P. Michael Payne,

Chief, Permits, Conservation and Education Division, Office of Protected Resources, National Marine Fisheries Service.

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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

RIN 0648-XF22

Marine Mammals; File No. 775-1875

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Notice; issuance of permit.

SUMMARY: Notice is hereby given that the Northeast Fisheries Science Center (NEFSC), National Marine Fisheries Service [Dr. Nancy Thompson, Responsible Party], 166 Water Street, Woods Hole, MA 02543, has been issued a permit to conduct research on, and import/export specimens collected from, marine mammals.

ADDRESSES: The permit and related documents are available for review upon written request or by appointment in the following offices:

Permits, Conservation and Education Division, Office of Protected Resources, NMFS, 1315 East-West Highway, Room 13705, Silver Spring, MD 20910; phone (301)713-2289; fax (301)427-2521;

Northeast Region, NMFS, One Blackburn Drive, Gloucester, MA 01930-2298; phone (978)281-9300; fax (978)281-9394; and

Southeast Region, NMFS, 263 13th Avenue South, Saint Petersburg, Florida 33701; phone (727)824-5312; fax (727)824-5309.

FOR FURTHER INFORMATION CONTACT:

Brandy Belmas or Carrie Hubbard, (301)713-2289.

SUPPLEMENTARY INFORMATION: On January 10, 2007, notice was published in the **Federal Register** (72 FR 1218) that a request for a scientific research permit to take seven species of baleen whales, twenty-five species/stocks of odontocetes, and four species of pinnipeds, including the following endangered species: sperm whale (*Physeter macrocephalus*), sei whale (*Balaenoptera borealis*), blue whale (*B. musculus*), fin whale (*B. physalus*), humpback whale (*Megaptera novaeangliae*), and right whale (*Eubalaena glacialis*), had been submitted by the above-named organization. The requested permit has been issued under the authority of the